











## HVAC LEGEND

### HVAC ABBREVIATIONS

LVR	LOUVER
MOD	MOTORIZED DAMPER
CONT.	CONTINUATION
DN	DOWN


  

### PIPING SYSTEMS

SYMBOL	DESCRIPTION
-----○-----	FUEL OIL RETURN
-----○-----	FUEL OIL SUPPLY
-----	VENT
	DIRECTION OF FLOW
	BUTTERFLY VALVE
	CAPPED PIPE
	BOTTOM CONNECTION
	PIPE UP
	RETURN AIR OR EXHAUST
	SUPPLY AIR OUTLET
	THERMOSTAT

### PIPING SYSTEMS

SYMBOL	DESCRIPTION
	MOTOR OPERATED DAMPER

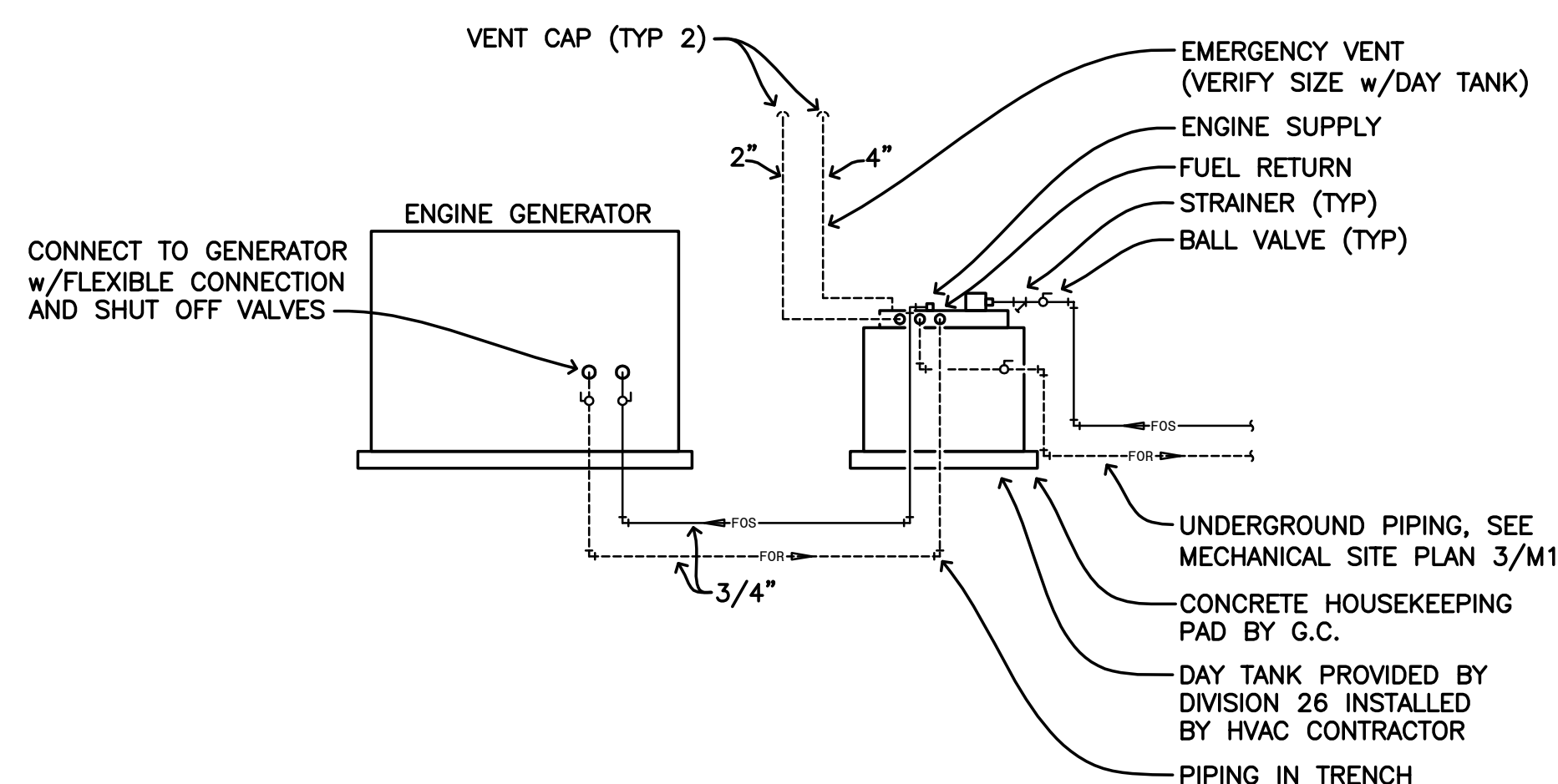
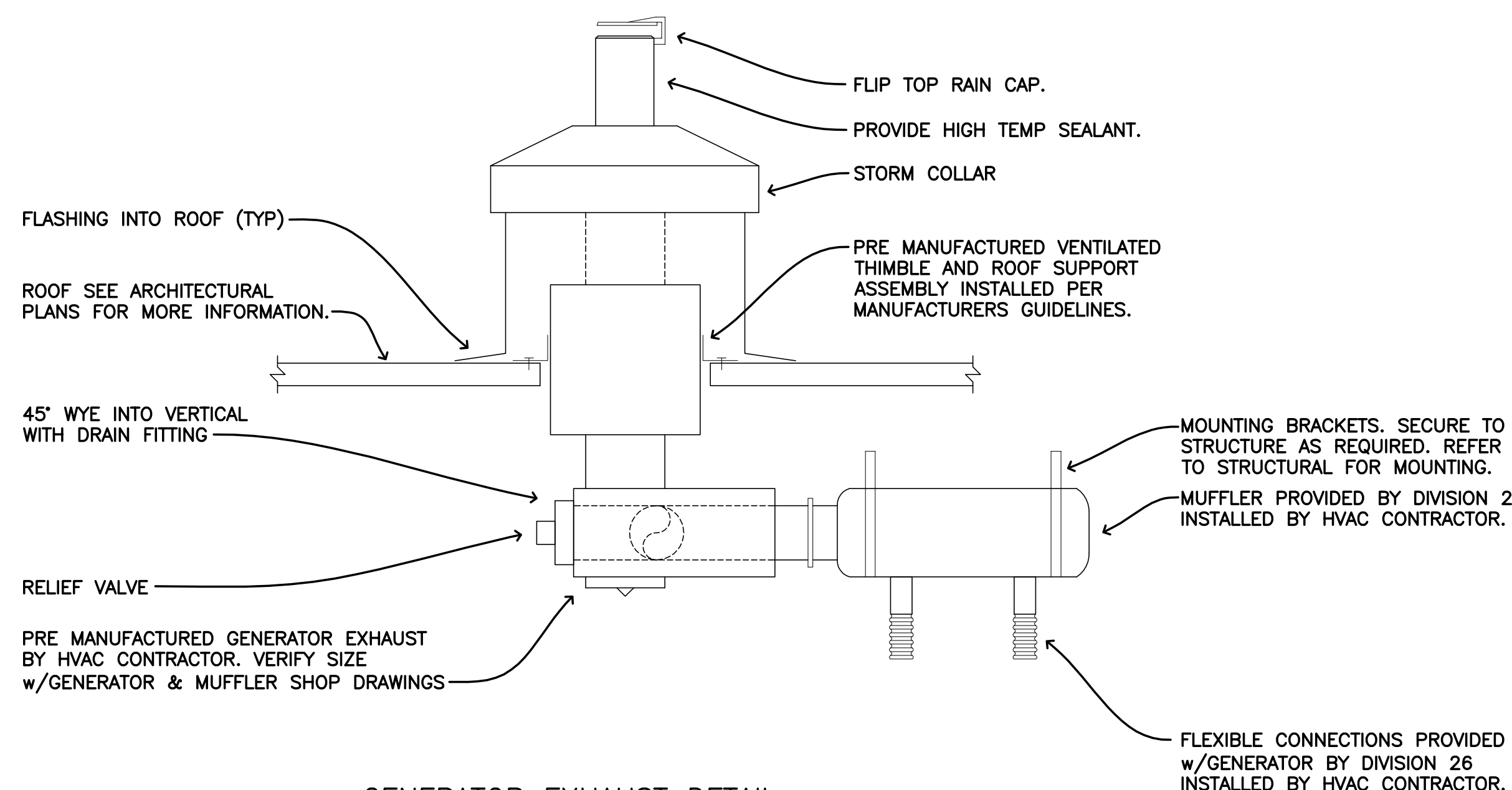
WIND SCHEDULE										
LOUVER ID	WIDTH (INCH)	HEIGHT (INCH)	DEPTH (INCH)	FRAME TYPE	GLASS CHANNEL	FREE STAIN (SQ. FT.)	AIR PRESSURE (INCH W.G.)	AIR VELOCITY (FPM)	MANUFACTURER & MODEL	NOTES
LV1-1	SEE NOTE #4	SEE NOTE #4	SEE NOTE #4	CHANNEL	60150	100.87	0.047	387		1.2, 1.4
LV1-2	SEE NOTE #4	SEE NOTE #4	SEE NOTE #4	CHANNEL	50800	131.25	0.024	387		1.2, 1.4
LV1-3	SEE NOTE #4	SEE NOTE #4	SEE NOTE #4	CHANNEL	34245	36.8	0.024	387		1.2, 1.4

1) PROVIDE CUSTOM COLOR CHART. COLOR TO BE DETERMINED BY ARCHITECT.

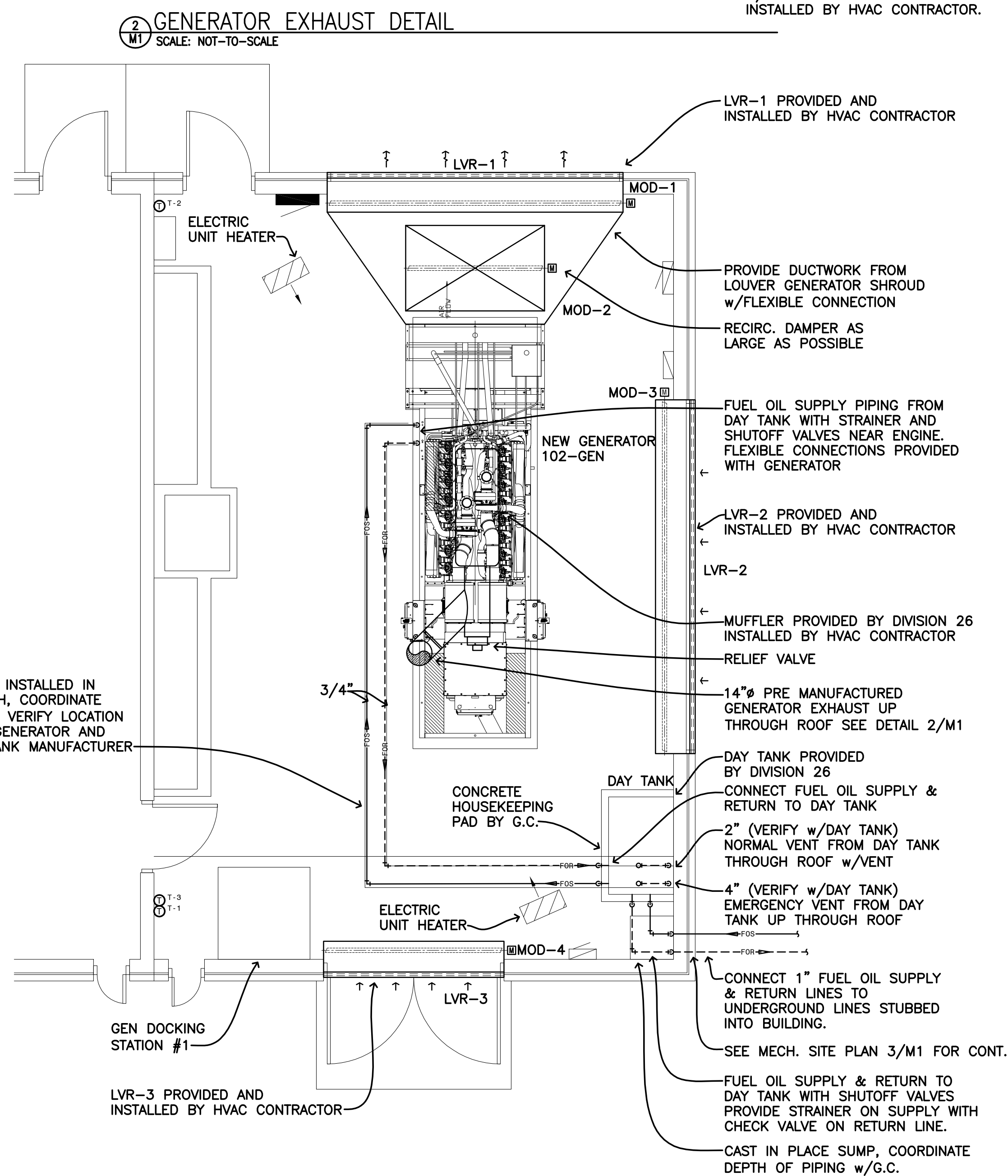
2) CONTRACTOR TO FIELD VERIFY USE COLOR TO OBSERVING VENDOR.

3) 689 FPM IN DRAINING POINT OF WATER PENETRATION.

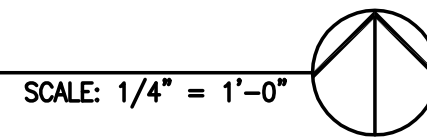
4) REFER TO ARCHITECTURAL DRAWINGS FOR WINDOW DIMENSIONS.



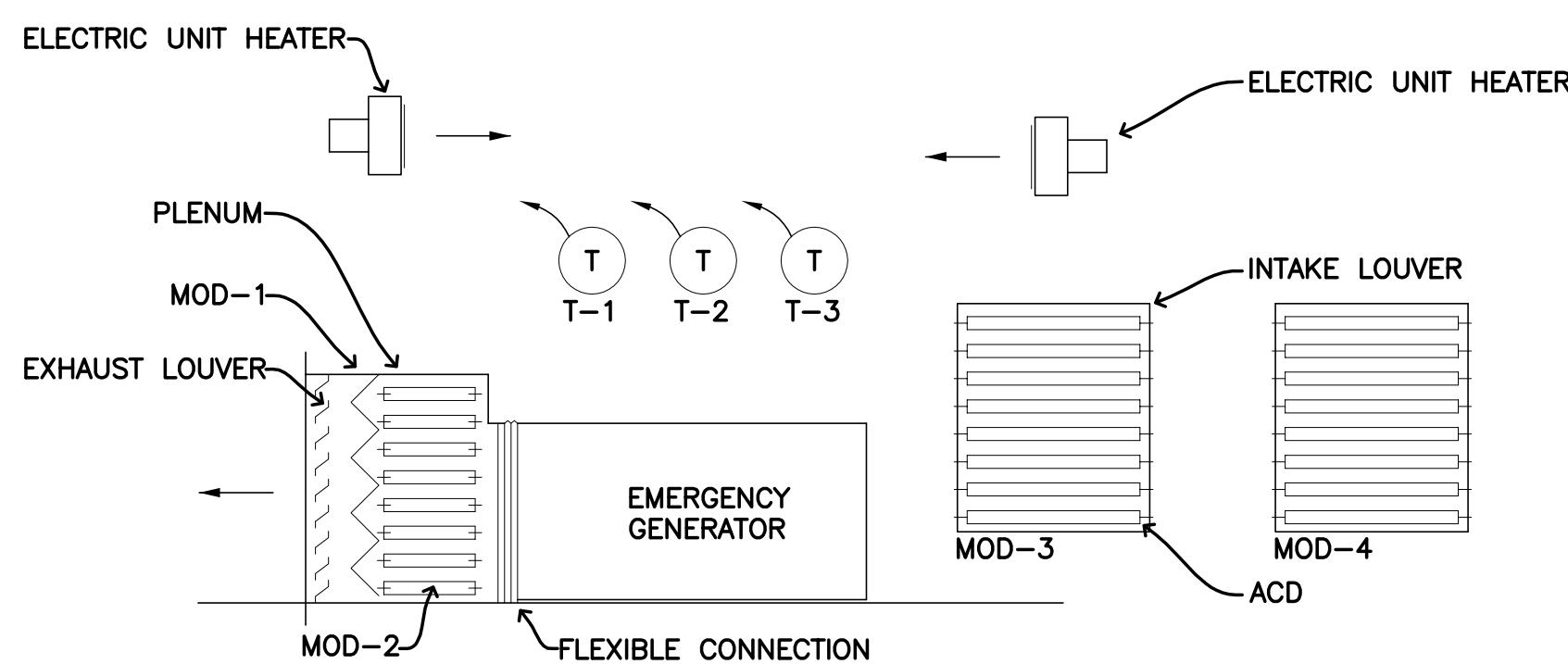
4 DAYTANK INSTALLATION WITH TANK BELOW GRADE DETAIL  
M1 SCALE: NOT-TO-SCALE



1 GENERATOR BUILDING – MECHANICAL



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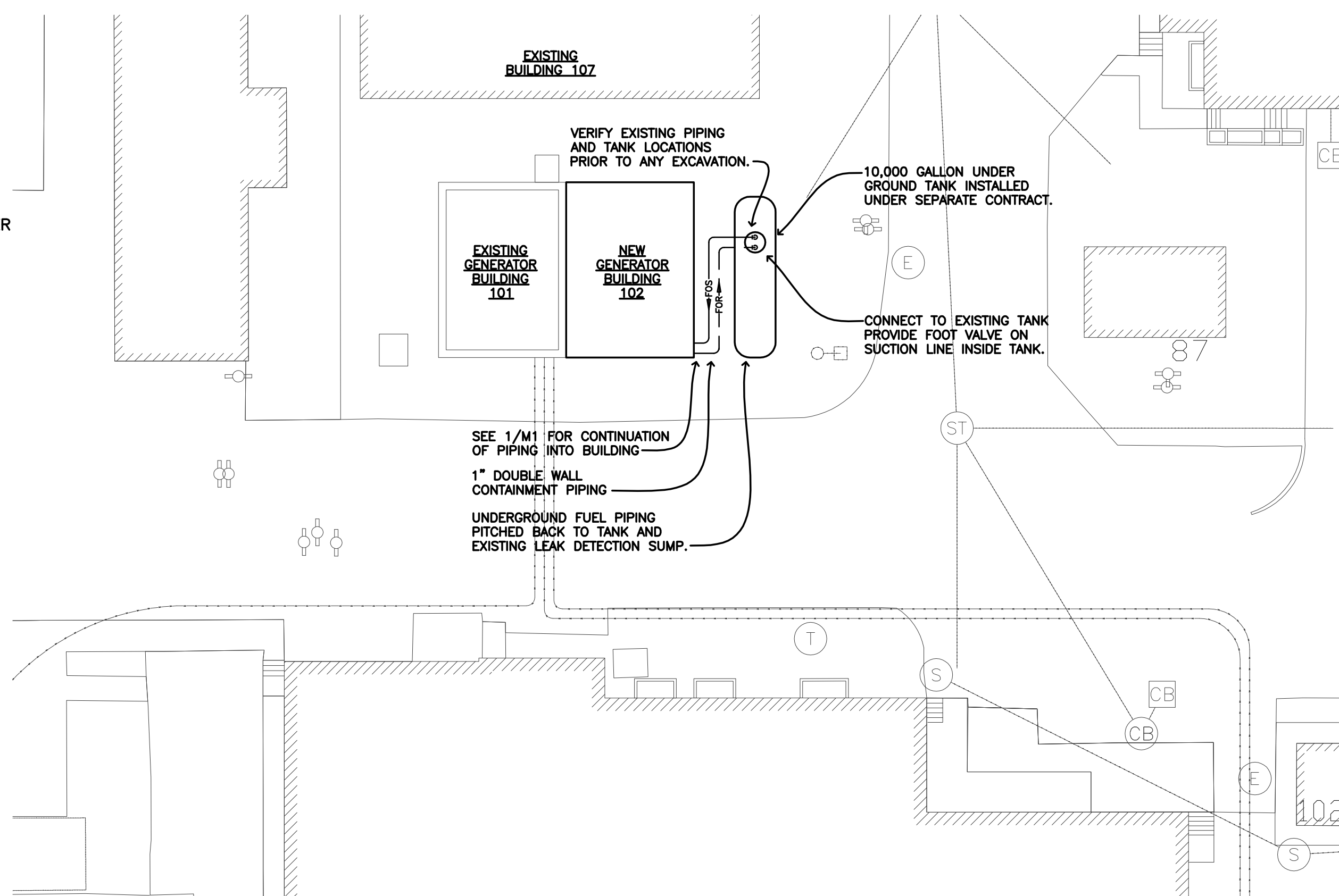


- NOTES:
1. EMERGENCY GENERATOR SHALL BE INTERLOCKED WITH MOD-3 & MOD-4. WHEN EMERGENCY GENERATOR IS ENERGIZED MOD-3 & MOD-4 SHALL OPEN. WHEN EMERGENCY IS DE-ENERGIZED MOD-3 & MOD-4 SHALL CLOSE.
  2. POWER OPERATED, OPPOSED BLADE, DAMPERS MOD-1 & MOD-2 SHALL BE INTERLOCKED WITH ROOM THERMOSTAT T1 SET AT 60°F [16°C]. ON A RISE IN ROOM TEMPERATURE ABOVE 60°F [16°C] MOD-1 SHALL MODULATE OPEN & MOD-2 SHALL MODULATE CLOSED. ON A DROP IN ROOM TEMPERATURE BELOW 60°F [16°C] MOD-1 SHALL MODULATE CLOSED & MOD-2 SHALL MODULATE OPEN.
  3. ELECTRIC UNIT HEATERS UH-1 & UH-2 (TWO STAGE ELECTRIC HEAT PER UNIT HEATER) SHALL BE INTERLOCKED WITH ROOM THERMOSTAT T2 SET AT 43°F [6.1°C]. ON A RISE IN ROOM TEMPERATURE BELOW 43°F [6.1°C] ELECTRIC UNIT HEATERS SHALL BE ENERGIZED & ON A RISE IN ROOM TEMPERATURE ABOVE 47°F [8.3°C].

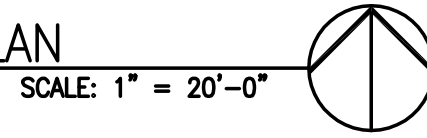
5  
M1

EMERGENCY GENERATOR ROOM CONTROLS

SCALE: NOT-TO-SCALE



3 GENERATOR BUILDING – MECHANICAL SITE PLAN



<b>Revisions:</b>	<b>Date</b>

**CONSULTANTS:**



ARCHITECT/ENGINEERS:



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SIGNATURE: Kathleen J. Nordness  
DATE: 3/30/2012 REC NO: 25714

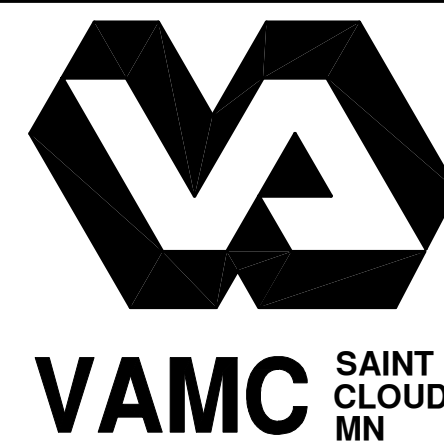
Drawing Title	GENERATOR BUILDING - MECHANICAL
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Approved: Project Director

Project Title	Building 102 Building 4 Generator Replacement
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Location St. Cloud VA Health Care System		
Date March 30, 2012	Checked TMB	Drawn MJB

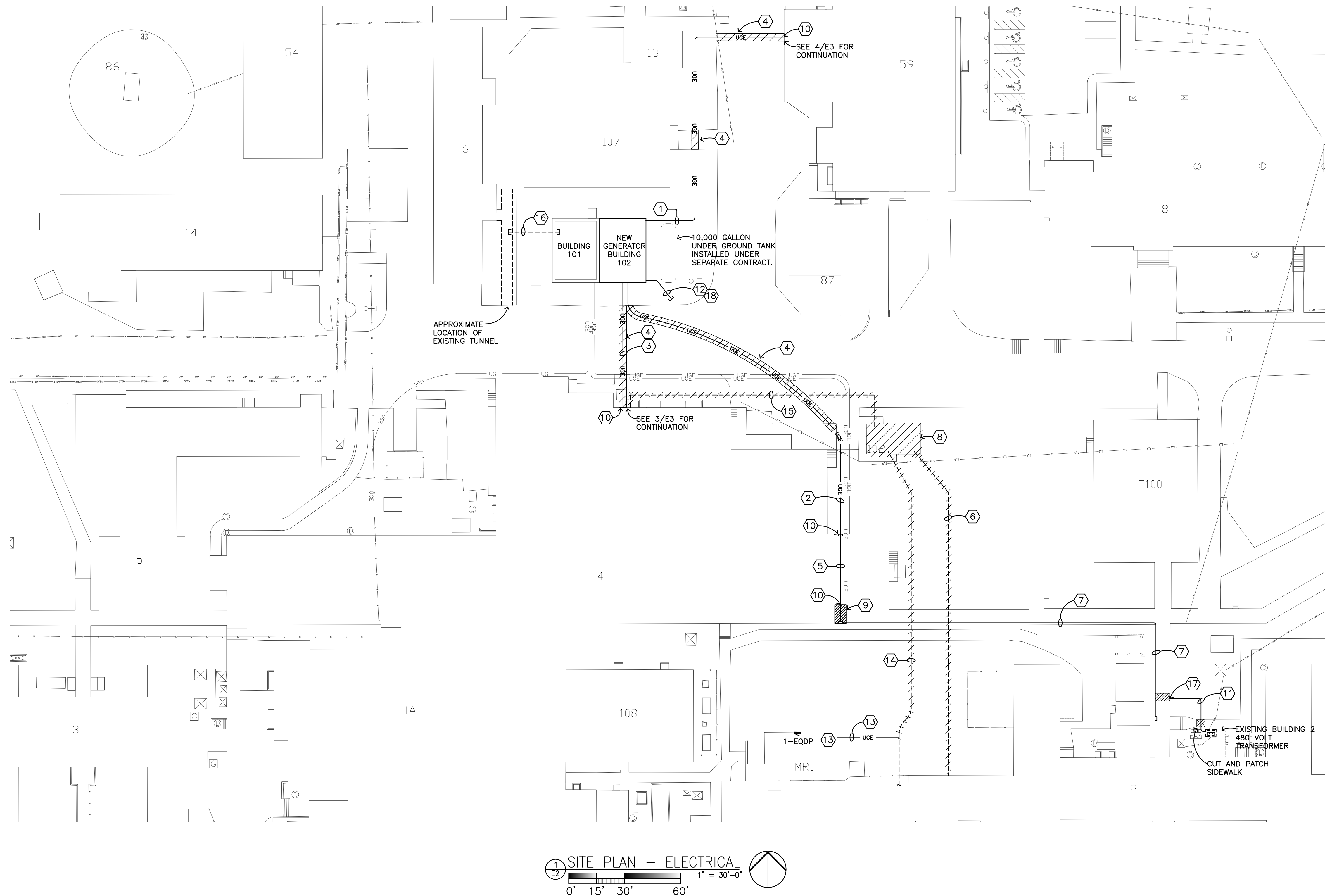
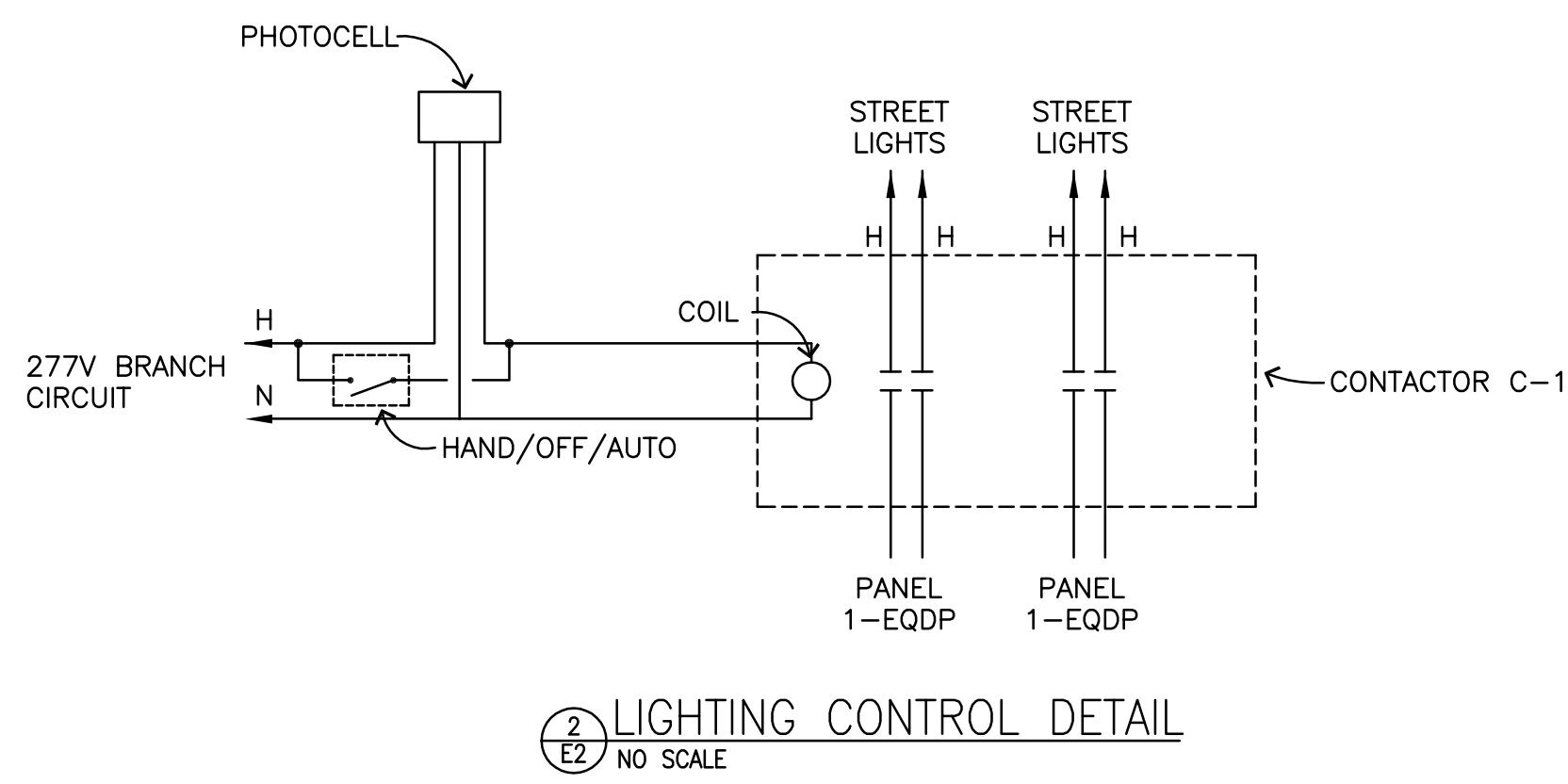
Project Number	656-11-211
Building Number	102
Drawing Number	M1
Date	6 of



**Figure 6.** The first six steps of the algorithm applied to the example problem. The top row shows the initial problem, and the subsequent rows show the results of each step. The bottom row shows the final solution, which is a sequence of black and white squares representing the optimal assignment of tasks to workers.

	1	2	3	4	5	6	7	8	9
--	---	---	---	---	---	---	---	---	---

three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
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three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot



PLAN NOTES:

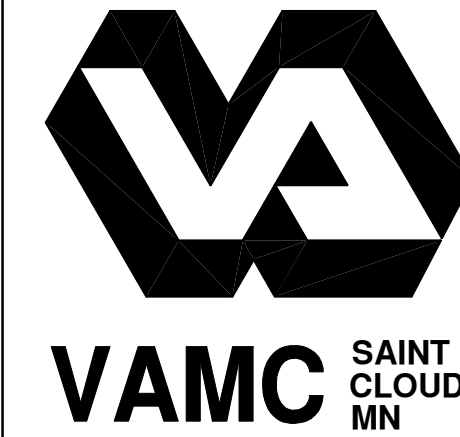
1. ONLY HALF OF ROADWAYS MAY BE BLOCKED FOR UNDERGROUND EXCAVATION AND CONDUIT INSTALLATION. INSTALL CONDUIT UNDER HALF OF ROADWAY. REPAIR ROADWAY FOR TRAFFIC, THEN COMPLETE THE OTHER HALF.
2. NO OPEN TRENCHES ARE ALLOWED BEYOND STANDARD WORKING HOURS.

PLAN NOTES:

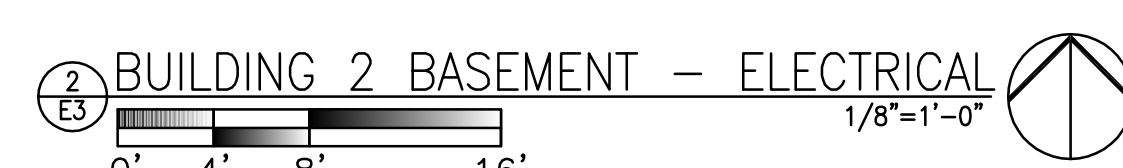
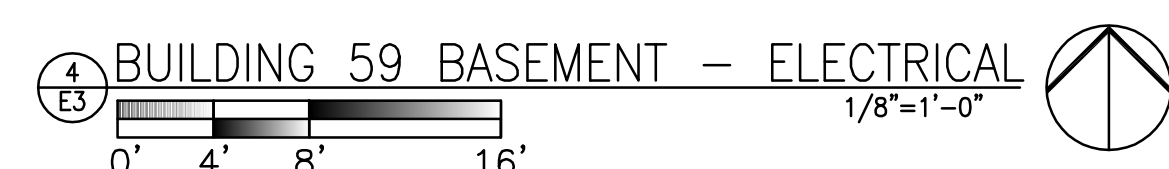
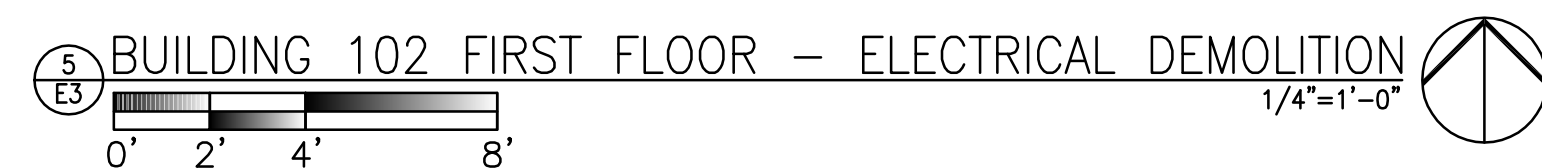
1. EMERGENCY FEEDER TO BUILDING 59 (LAUNDRY).
2. EMERGENCY FEEDERS TO BUILDING 2, ONE FOR ELEVATOR AND CHILLER AND ONE FOR LIFE SAFETY BRANCH AND ONE FOR THE CRITICAL BRANCHES.
3. EMERGENCY FEEDERS TO BUILDING 4, ONE FOR EQUIPMENT (KITCHEN) AND ONE FOR LIFE SAFETY.
4. CUT AND PATCH ASPHALT TO INSTALL FEEDERS.
5. ROUTE THROUGH THE BASEMENT OF BUILDING 4. ROUTE OVERHEAD THROUGH DRY STORAGE AREA. VERIFY EXACT ROUTE WITH VA COR.
6. REMOVE THE CONDUCTORS FROM BUILDING 102 TO BUILDING 2. SEE 1/E3. ABANDON CONDUIT BELOW GRADE. REMOVE CONDUIT WHERE IT PENETRATES THE TUNNEL ON NORTH AND SOUTH SIDES AND PATCH OPENINGS. REMOVE ALL CONDUIT WITHIN BUILDING 2 AND PATCH ALL PENETRATIONS.
7. ROUTE IN TUNNEL. SEE 2/E3. ROUTE LOW ON WALL. VERIFY EXACT ROUTE WITH VA COR.
8. REMOVE EXISTING GENERATOR AND DEMOLISH EXISTING FEEDERS FOR BUILDING 102. SEE 5/E3 AND 1/E5.
9. CUT AND PATCH FLOOR OF TUNNEL. ROUTE FEEDERS UNDER FLOOR OF TUNNEL AND UP TO A NEW PULL BOX ON OPPOSITE WALL OF TUNNEL.
10. PROVIDE LINK-SEAL TO SEAL PIPE PENETRATIONS INTO EXTERIOR FOUNDATION WALLS. PROVIDE PULL BOX WHERE CONDUITS PENETRATE FOUNDATION WALL. VERIFY WALL PENETRATION LOCATIONS WITH EXISTING CONDUITS AND THE VA COR.
11. ROUTE NEW SERVICE FEEDER TO BUILDING 2 480 VOLT PANEL 2EQ UNDERGROUND AND PENETRATE THE TUNNEL WALL OPPOSITE NEW DISCONNECT 2-DS4.
12. STUB OUT (4) 3 INCH CONDUITS, (1) 1 1/2 INCH CONDUIT AND (1) 1 INCH CONDUIT (START SIGNAL) FOR EMERGENCY FEEDERS TO FUTURE KITCHEN BUILDING.
13. ROUTE EXISTING 480 VOLT STREET LIGHTING CIRCUITS, 2#2+8 GROUND IN A 1 1/4 INCH CONDUIT AND 2#8+8 GROUND IN A 1 INCH CONDUIT TO PANEL 1-EQDP IN THE NEW MRI EXPANSION. PROVIDE (2) 20/2 BREAKERS IN PANEL 1-EQDP AND PROVIDE (1) 30A, 4 POLE CONTACTOR WITH H/O/A AND A PHOTOCELL ON THE NORTH SIDE OF THE BUILDING TO CONTROL THE CONTACTOR. SEE DETAIL 2/E2.
14. REMOVE STREET LIGHT CONDUCTORS FROM BUILDING 102 TO INTERCEPT POINT FOR THE REROUTE TO 1-EQDP. CONDUCTORS MAY BE PULLED BACK AND SALVAGED. REMOVE ALL CONDUIT THROUGH TUNNEL AND ABOVE GRADE AND SEAL ALL PENETRATIONS.
15. REMOVE FEEDER FROM BUILDING 102 TO 4-ATS-EB AND 4-ATS-ES. REMOVE ALL CONDUCTORS, ANY CONDUIT ABOVE GRADE OR IN THE BASEMENT OF BUILDING 4, ABANDON CONDUIT BELOW GRADE AND SEAL ALL PENETRATIONS. SEE 1/E5.
16. UTILIZE EXISTING SPARE 2 INCH CONDUIT FROM BUILDING 101 TO THE UTILITY TUNNEL FOR DATA CABLES TO BUILDING 6 (NOTE 11, E3). PROVIDE PULL BOXES ON BOTH ENDS.
17. CUT AND PATCH THE TUNNEL FLOOR TO INSTALL THE CONDUITS TO 2-DS4 ON THE OPPOSITE WALL. PROVIDE LINK SEAL TO SEAL CONDUITS WHERE THEY PENETRATE TUNNEL FOUNDATION WALL. SEE 2/E3.
18. STUB OUT (2) 3 INCH CONDUITS, (1) 1 1/2 INCH CONDUIT AND (1) 1 INCH CONDUIT FOR EMERGENCY POWER FOR FUTURE IT BUILDING.

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CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number	
MBN MECHANICAL * ELECTRICAL * CIVIL 502 7th St N, Suite 200 Fargo, ND 58102 Phone: 701.478.6256 Fax: 701.478.6240		JLG architects Alexandria 525 Broadway Street Alexandria, MN 56308 phone 320.759.9030 facsimile 320.759.9062 www.jlgarchitects.com copyright © 2011		SITE PLAN - ELECTRICAL		Building 102 Building 4 Generator Replacement		656-11-211 Building Number 102	
Revisions		Date		Approved Project Director		Location		Drawing Number	
						St. Cloud VA Health Care System		E2	
						Date		Dwg. 8 of 12	
						Checked			
						MAB			
						Drawn			
						TLP			



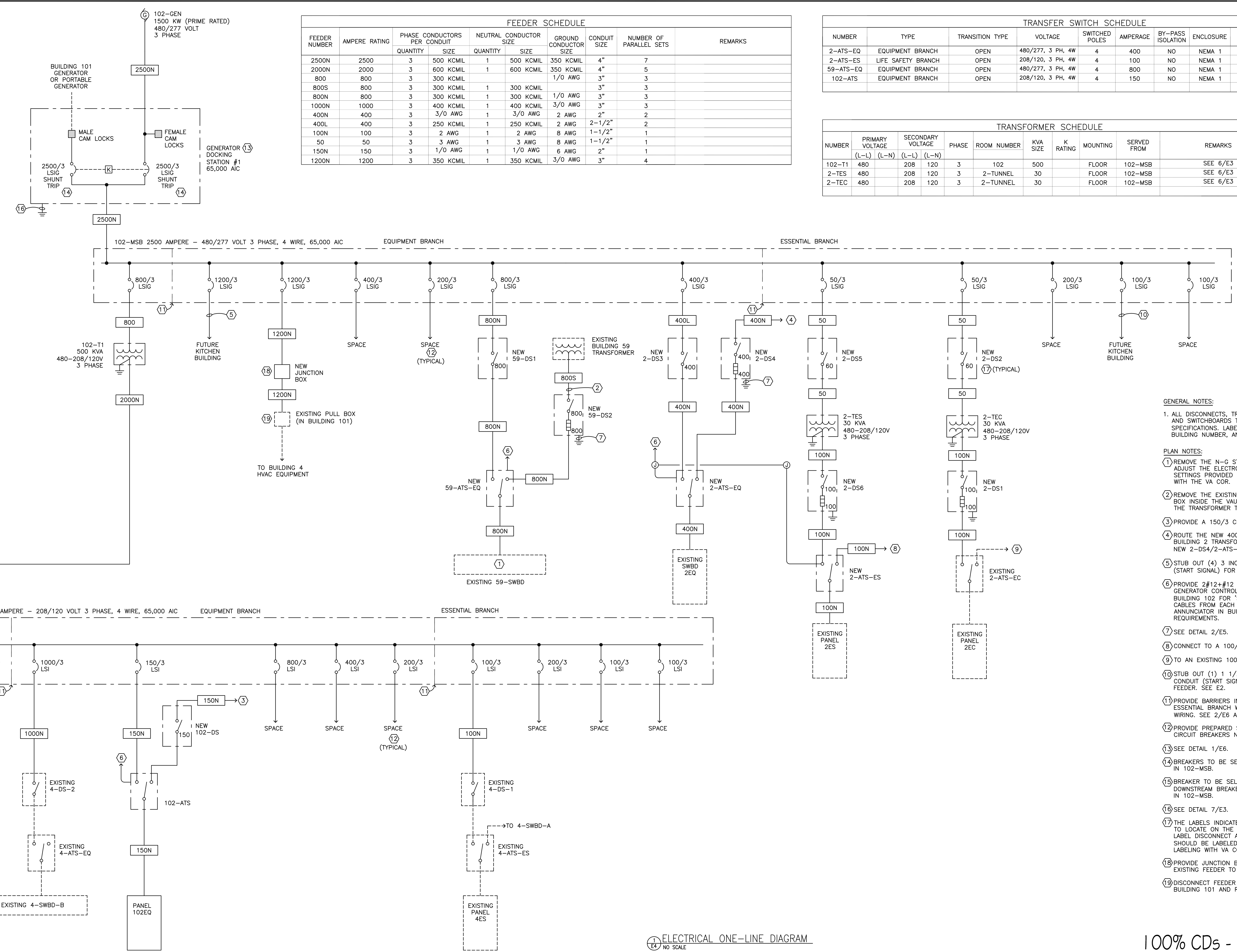




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VA FORM 08-6231

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FEEDER SCHEDULE									
FEEDER NUMBER	AMPERE RATING	PHASE CONDUCTORS PER CONDUIT		NEUTRAL CONDUCTOR SIZE		GROUND CONDUCTOR SIZE	CONDUIT SIZE	NUMBER OF PARALLEL SETS	REMARKS
		QUANTITY	SIZE	QUANTITY	SIZE				
2500N	2500	3	500 KCMIL	1	500 KCMIL	350 KCMIL	4"	7	
2000N	2000	3	600 KCMIL	1	600 KCMIL	350 KCMIL	4"	5	
800	800	3	300 KCMIL	1	300 KCMIL	1/0 AWG	3"	3	
800S	800	3	300 KCMIL	1	300 KCMIL	1/0 AWG	3"	3	
800N	800	3	300 KCMIL	1	300 KCMIL	1/0 AWG	3"	3	
1000N	1000	3	400 KCMIL	1	400 KCMIL	3/0 AWG	3"	3	
400N	400	3	3/0 AWG	1	3/0 AWG	2 AWG	2"	2	
400L	400	3	250 KCMIL	1	250 KCMIL	2 AWG	2-1/2"	2	
100N	100	3	2 AWG	1	2 AWG	8 AWG	1-1/2"	1	
50	50	3	3 AWG	1	3 AWG	8 AWG	1-1/2"	1	
150N	150	3	1/0 AWG	1	1/0 AWG	6 AWG	2"	1	
1200N	1200	3	350 KCMIL	1	350 KCMIL	3/0 AWG	3"	4	

TRANSFER SWITCH SCHEDULE								
NUMBER	TYPE	TRANSITION TYPE	VOLTAGE	SWITCHED POLES	AMPERAGE	BY-PASS ISOLATION	ENCLOSURE	REMARKS
2-ATS-EQ	EQUIPMENT BRANCH	OPEN	480/277, 3 PH, 4W	4	400	NO	NEMA 1	
2-ATS-ES	LIFE SAFETY BRANCH	OPEN	208/120, 3 PH, 4W	4	100	NO	NEMA 1	
59-ATS-EQ	EQUIPMENT BRANCH	OPEN	480/277, 3 PH, 4W	4	800	NO	NEMA 1	
102-ATS	EQUIPMENT BRANCH	OPEN	208/120, 3 PH, 4W	4	150	NO	NEMA 1	

TRANSFORMER SCHEDULE									
NUMBER	PRIMARY VOLTAGE	SECONDARY VOLTAGE	PHASE	ROOM NUMBER	KVA SIZE	K RATING	MOUNTING	SERVED FROM	REMARKS
102-T1	480	208 120	3	102	500		FLOOR	102-MSB	SEE 6/E3
2-TES	480	208 120	3	2-TUNNEL	30		FLOOR	102-MSB	SEE 6/E3
2-TEC	480	208 120	3	2-TUNNEL	30		FLOOR	102-MSB	SEE 6/E3

- GENERAL NOTES:
- ALL DISCONNECTS, TRANSFER SWITCHES, TRANSFORMERS AND SWITCHBOARDS TO BE LABELED PER THE SPECIFICATIONS. LABELS TO INCLUDE BRANCH (EQ,EC,ES), BUILDING NUMBER, AND VOLTAGE.
- PLAN NOTES:
- REMOVE THE N-0 STRAP WITHIN THE EXISTING SWITCHBOARD. ADJUST THE ELECTRONIC TRIP MAIN BREAKER PER THE SETTINGS PROVIDED BY THE PROJECT ENGINEER. COORDINATE WITH THE VA COR.
  - REMOVE THE EXISTING CONDUIT AND CONDUCTORS AND PULL BOX INSIDE THE VAULT. REUSE EXISTING CONDUITS FROM THE TRANSFORMER TO BUILDING, PROVIDE NEW CONDUCTORS.
  - PROVIDE A 150/3 CIRCUIT BREAKER IN 4-SWB0-A.
  - ROUTE THE NEW 400A FEEDER FROM THE EXTERIOR BUILDING 2 TRANSFORMER TO SWITCHBOARD 2EQ VIA NEW 2-DS4/2-ATS-EQ. SEE E2 FOR ROUTING.
  - STUB OUT (4) 3 INCH CONDUITS AND (1) 1 INCH CONDUIT (START SIGNAL) FOR FUTURE KITCHEN, SEE E2.
  - PROVIDE 2#12+12 GROUND IN A 1 INCH CONDUIT TO THE GENERATOR CONTROL PANEL VIA THE JUNCTION BOX IN BUILDING 102 FOR 'START SIGNAL'. ALSO INSTALL REQUIRED CABLES FROM EACH TRANSFER SWITCH TO THE ATS ANNUNCIATOR IN BUILDING 102. SEE SECTION 26 36 23 FOR REQUIREMENTS.
  - SEE DETAIL 2/E5.
  - CONNECT TO A 100/3 IN MSB-2, PROVIDE NEW BREAKER.
  - TO AN EXISTING 100/3 IN MSB-2.
  - STUB OUT (1) 1 1/2 INCH CONDUIT AND (1) 1 INCH CONDUIT (START SIGNAL) FOR FUTURE KITCHEN LIFE SAFETY FEEDER. SEE E2.
  - PROVIDE BARRIERS IN THE SWITCHGEAR TO SEPARATE THE ESSENTIAL BRANCH WIRING FROM THE EQUIPMENT BRANCH WIRING. SEE 2/E6 AND 3/E6.
  - PROVIDE PREPARED SPACE WITH BUSSING KITS FOR FUTURE CIRCUIT BREAKERS.
  - SEE DETAIL 1/E6.
  - BREAKERS TO BE SELECTIVELY COORDINATED WITH BREAKERS IN 102-MSB.
  - BREAKER TO BE SELECTIVELY COORDINATED WITH DOWNSTREAM BREAKERS IN 102-LSB AND UPSTREAM 800/3 IN 102-MSB.
  - SEE DETAIL 7/E3.
  - THE LABELS INDICATED ON THE DISCONNECT SWITCHES ARE TO LOCATE ON THE PLAN DRAWINGS ONLY. CONTRACTOR TO LABEL DISCONNECT AS TO WHAT IT FEEDS. EXAMPLE: 2-DS2 SHOULD BE LABELED 'TRANSFORMER 2-TEC'. VERIFY ALL LABELING WITH VA COR.
  - PROVIDE JUNCTION BOX ABOVE 102-MSB TO EXTEND THE EXISTING FEEDER TO THE 1200 AMP BREAKER IN 102-MSB.
  - DISCONNECT FEEDER FROM 480 VOLT SWITCHBOARD ON BUILDING 101 AND ROUTE TO NEW JUNCTION BOX.

1 ELECTRICAL ONE-LINE DIAGRAM  
E4 NO SCALE

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Revisions

Date

CONSULTANTS:

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PRINTED NAME: MICHAEL A. BERGER  
SIGNATURE: [Signature]  
DATE: 3/30/2012 REG. NO. 40294

Drawing Title

ELECTRICAL ONE-LINE DIAGRAM  
ELECTRICAL SCHEDULES

Approved Project Director

Project Title

Building 102  
Building 4 Generator Replacement

Location

St. Cloud VA Health Care System

Date

March 30, 2012

Checked

MAB

Drawn

TLP

Project Number

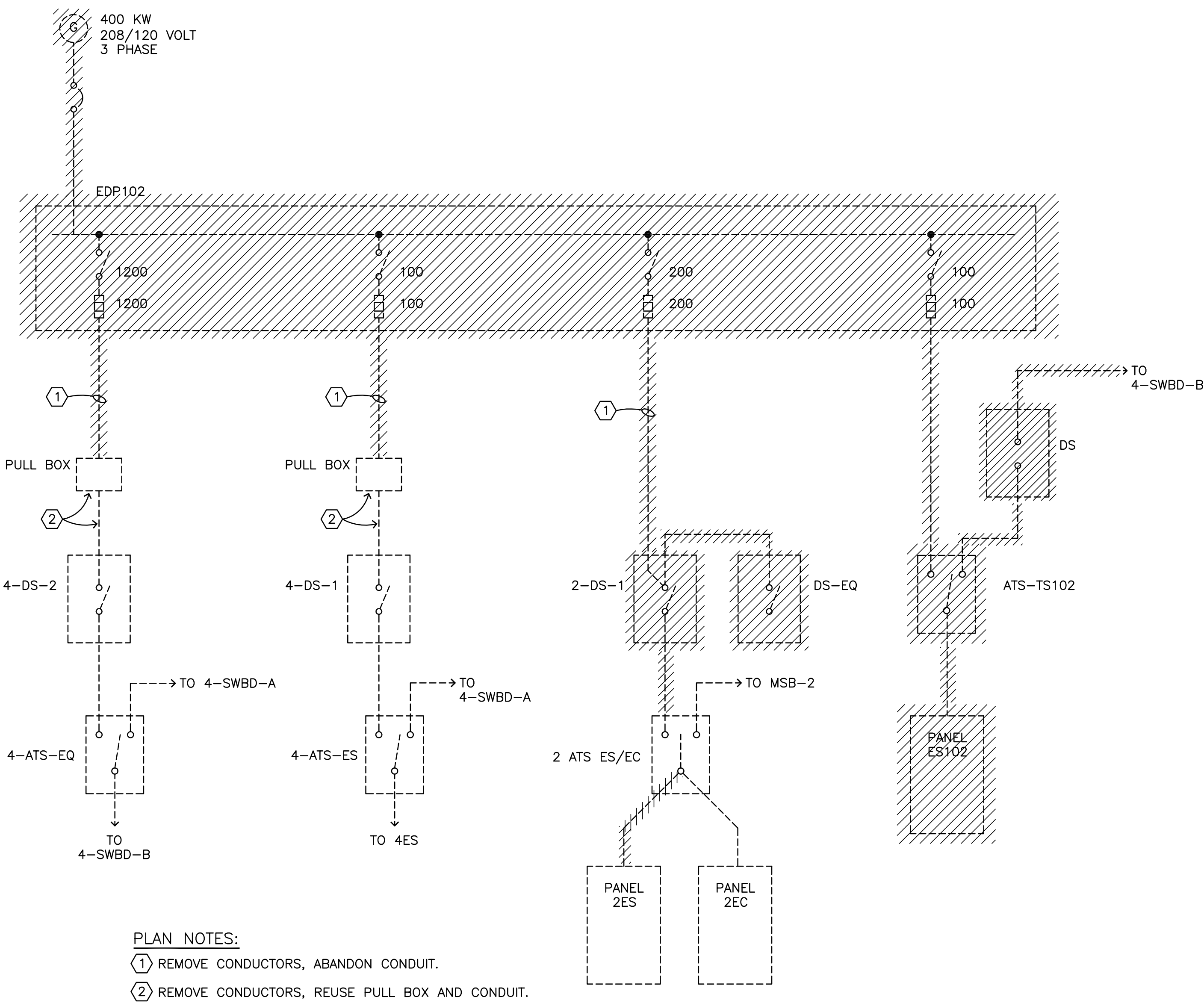
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Building Number  
102

Drawing Number

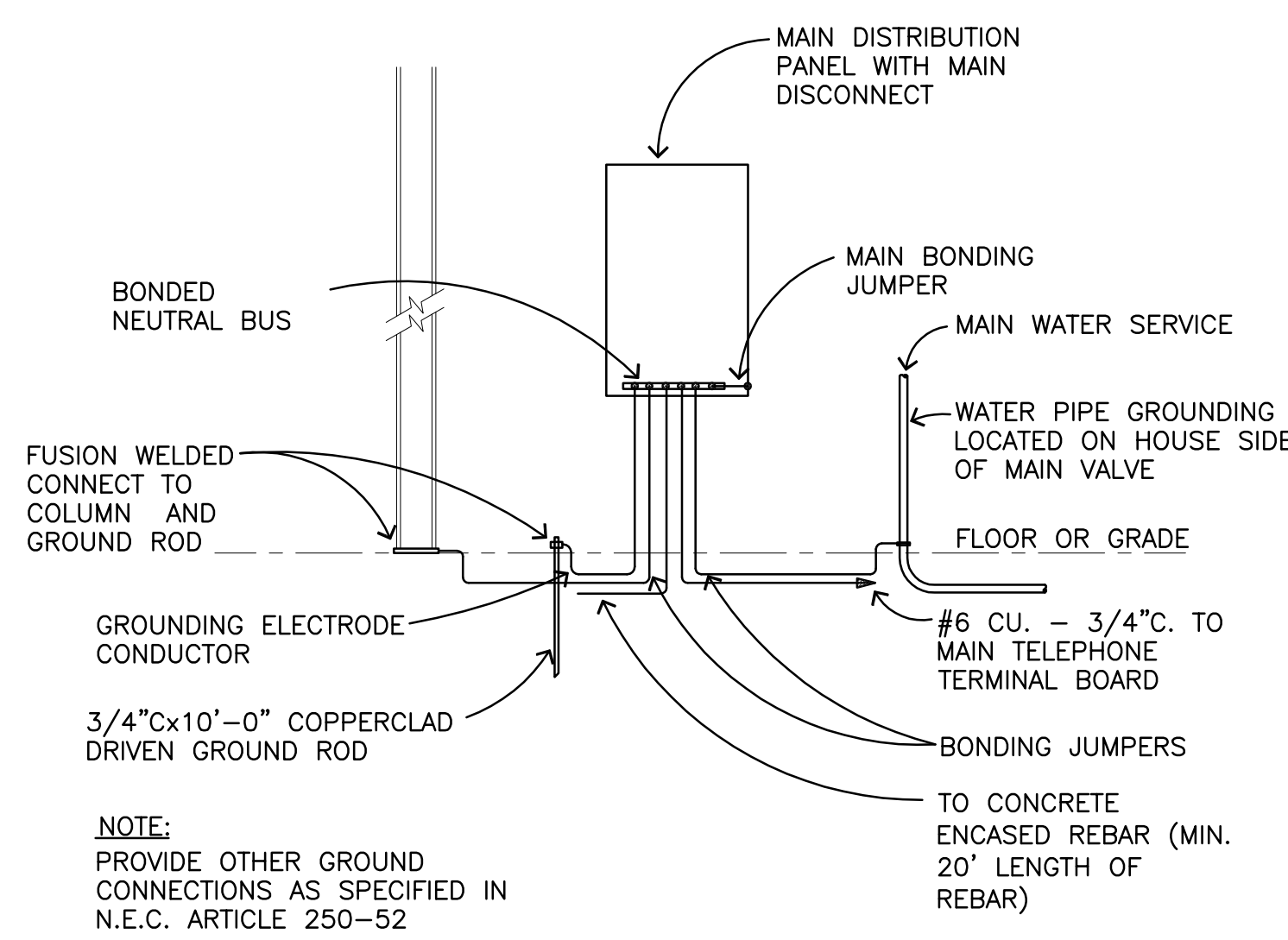
E4  
Dwg. 10 of 12

**VAMC**  
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MN

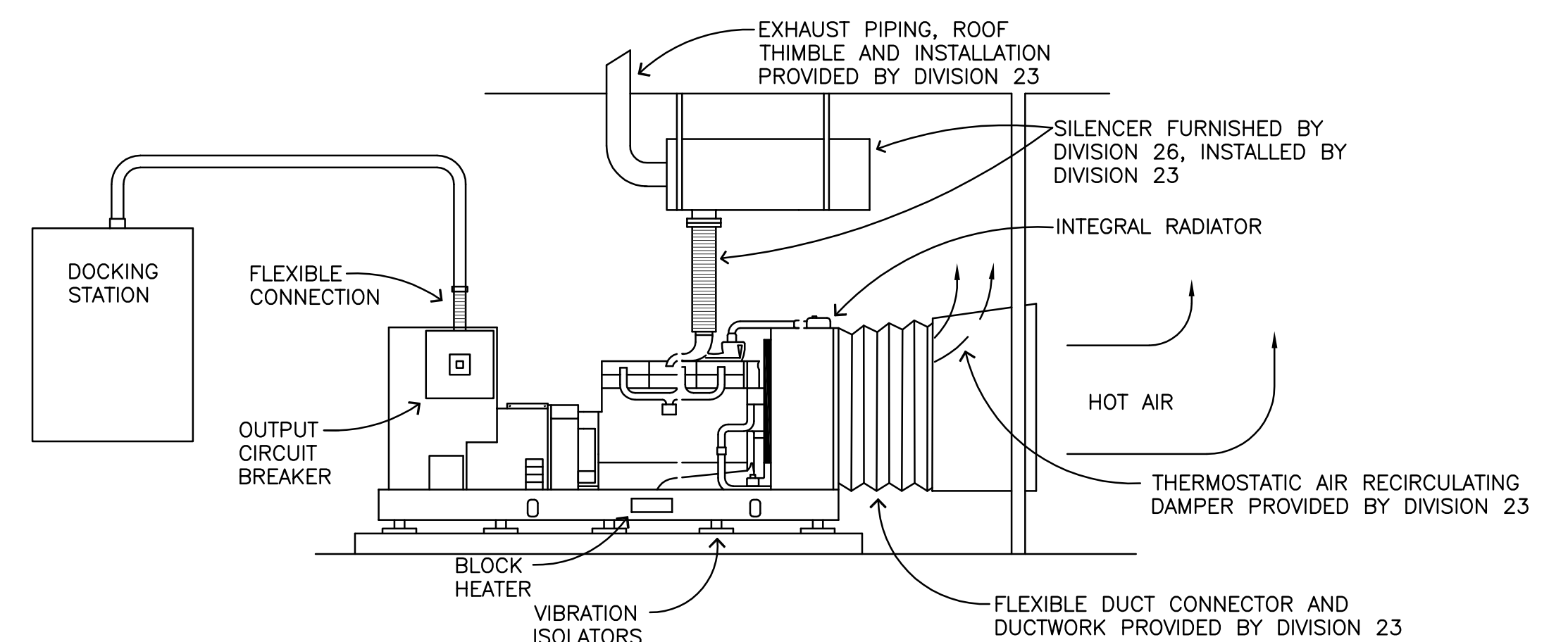
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EXISTING BUILDING 102 ONE LINE DIAGRAM - ELECTRICAL DEMOLITION  
NO SCALE



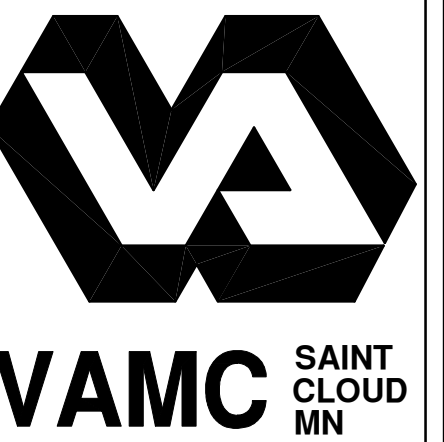
SYSTEM GROUND DETAIL (MAIN DISTRIBUTION PANEL)  
NO SCALE



ENGINE GENERATOR SET DETAIL  
NO SCALE

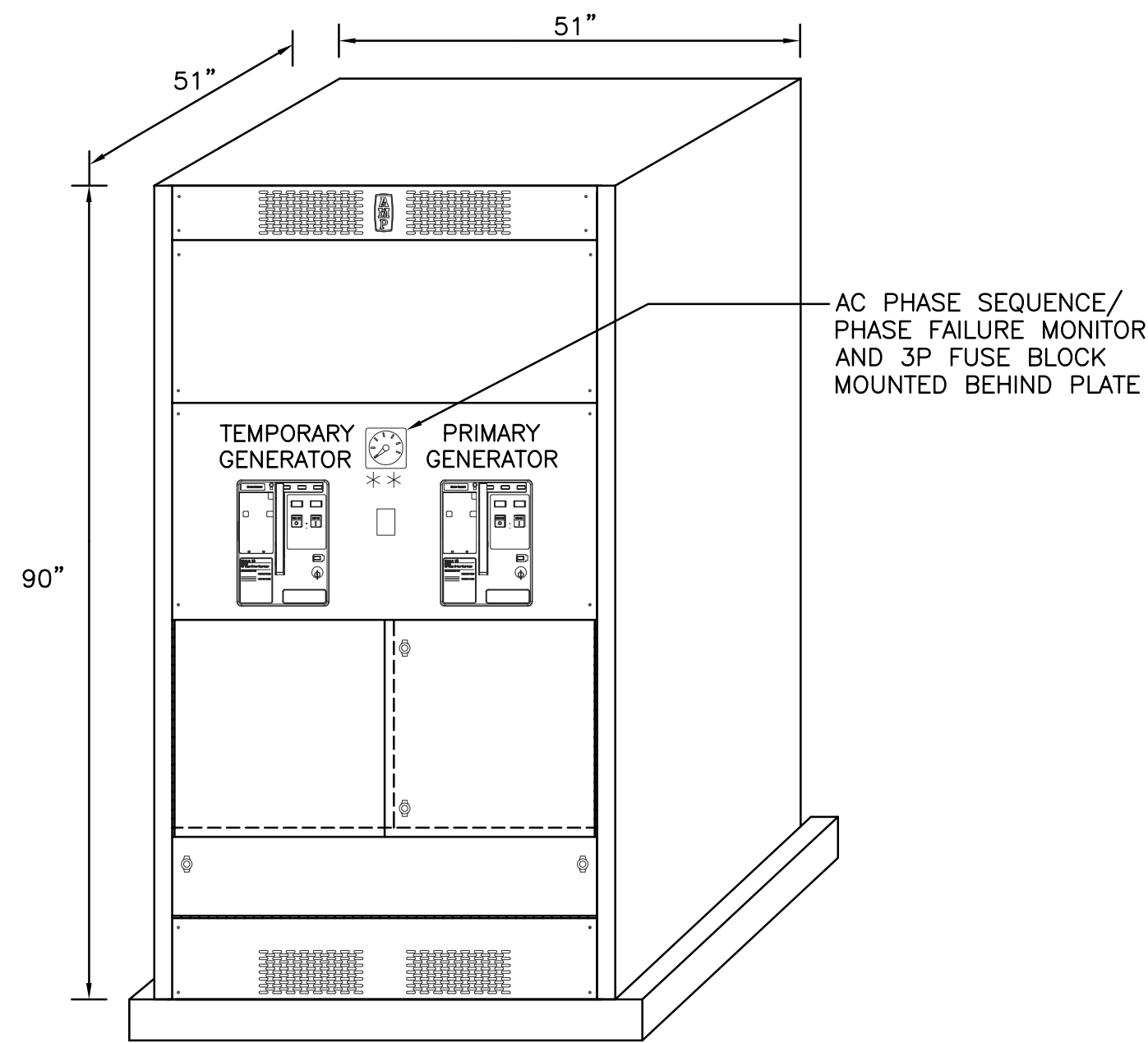
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MBN MECHANICAL * ELECTRICAL * CIVIL 503 7th St N, Suite 200 Fargo, ND 58102 Phone: 701.478.6534 Fax: 701.478.6340		JLG architects Alexandria 525 Broadway Street Alexandria, MN 56308 phone 320.759.9030 facsimile 320.759.9062 www.jlgarchitects.com copyright © 2011		EXISTING BUILDING 102 ONE-LINE DIAGRAM - ELECTRICAL DETAILS		Building 102 Building 4 Generator Replacement		656-11-211 Building Number 102	
Revisions		Date		Approved Project Director		Location St. Cloud VA Health Care System		Drawing Number	
				Signature: MICHAEL A. BERGER DATE: 3/30/2012 REG. NO. 40294		Date March 30, 2012		E5 Dwg. 11 of 12	
						Checked MAB		Drawn TLP	

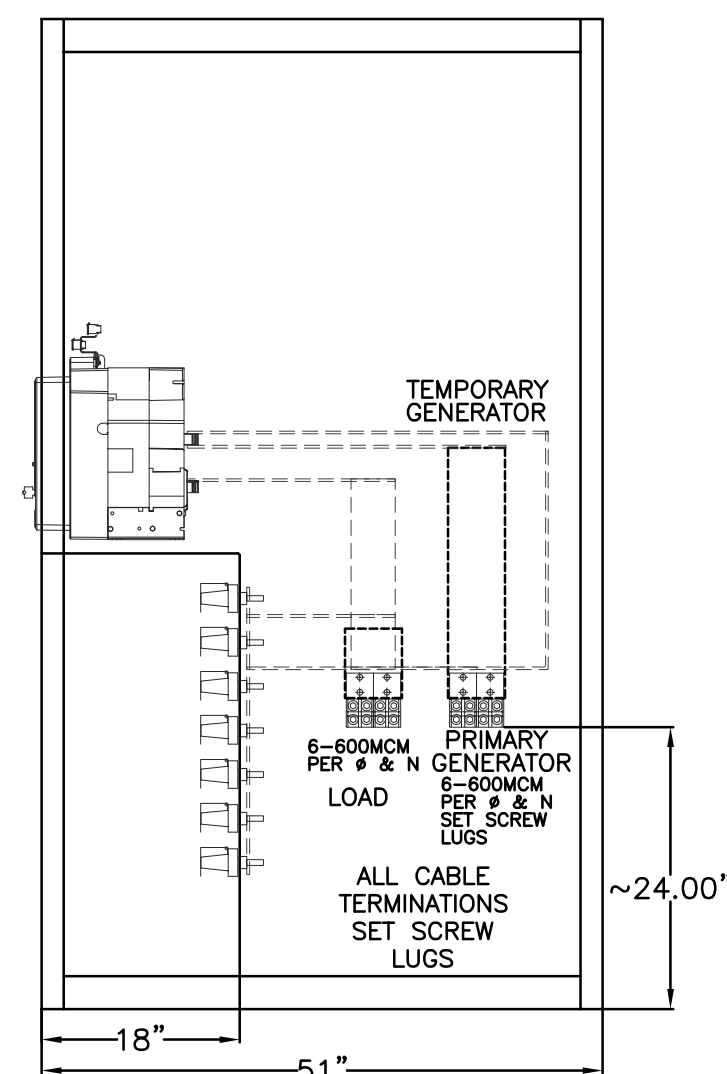




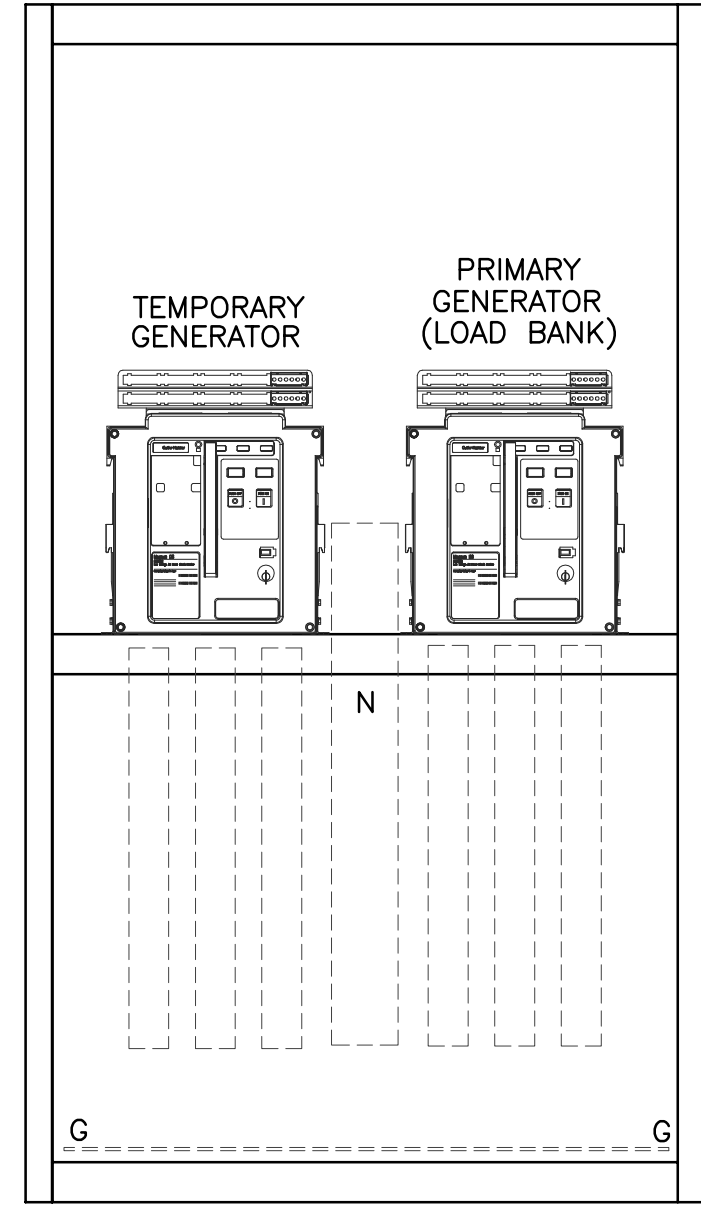
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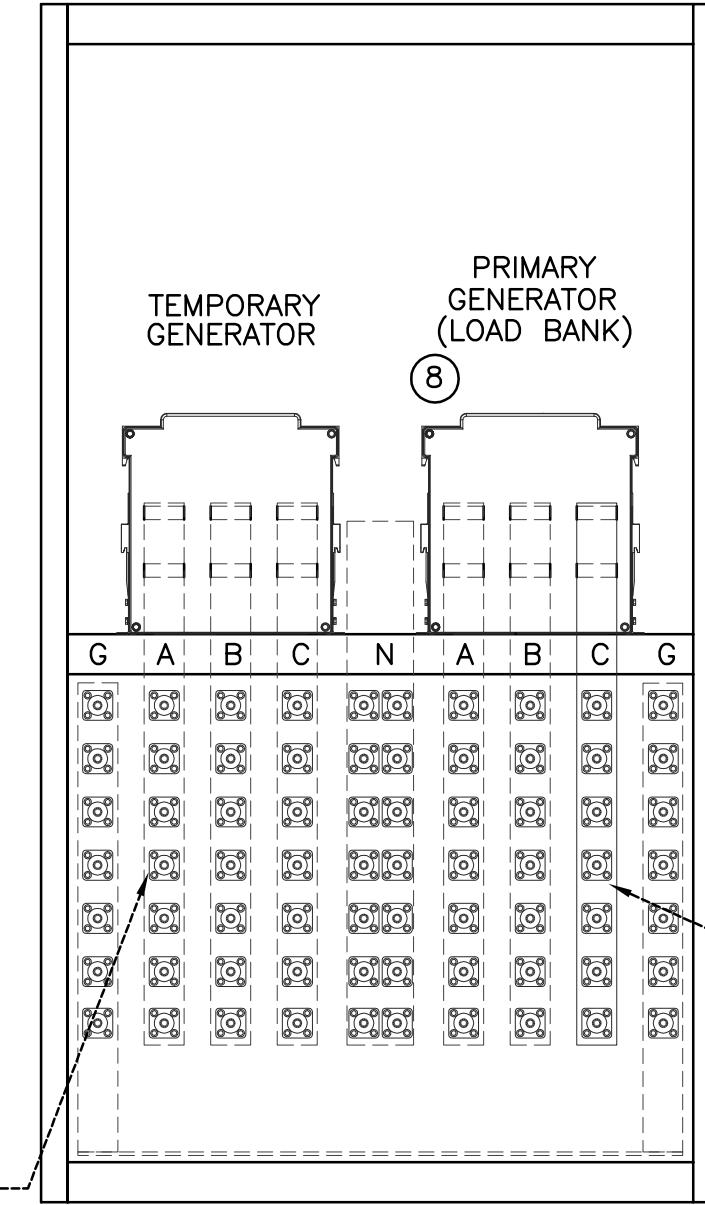
FRONT ELEVATION



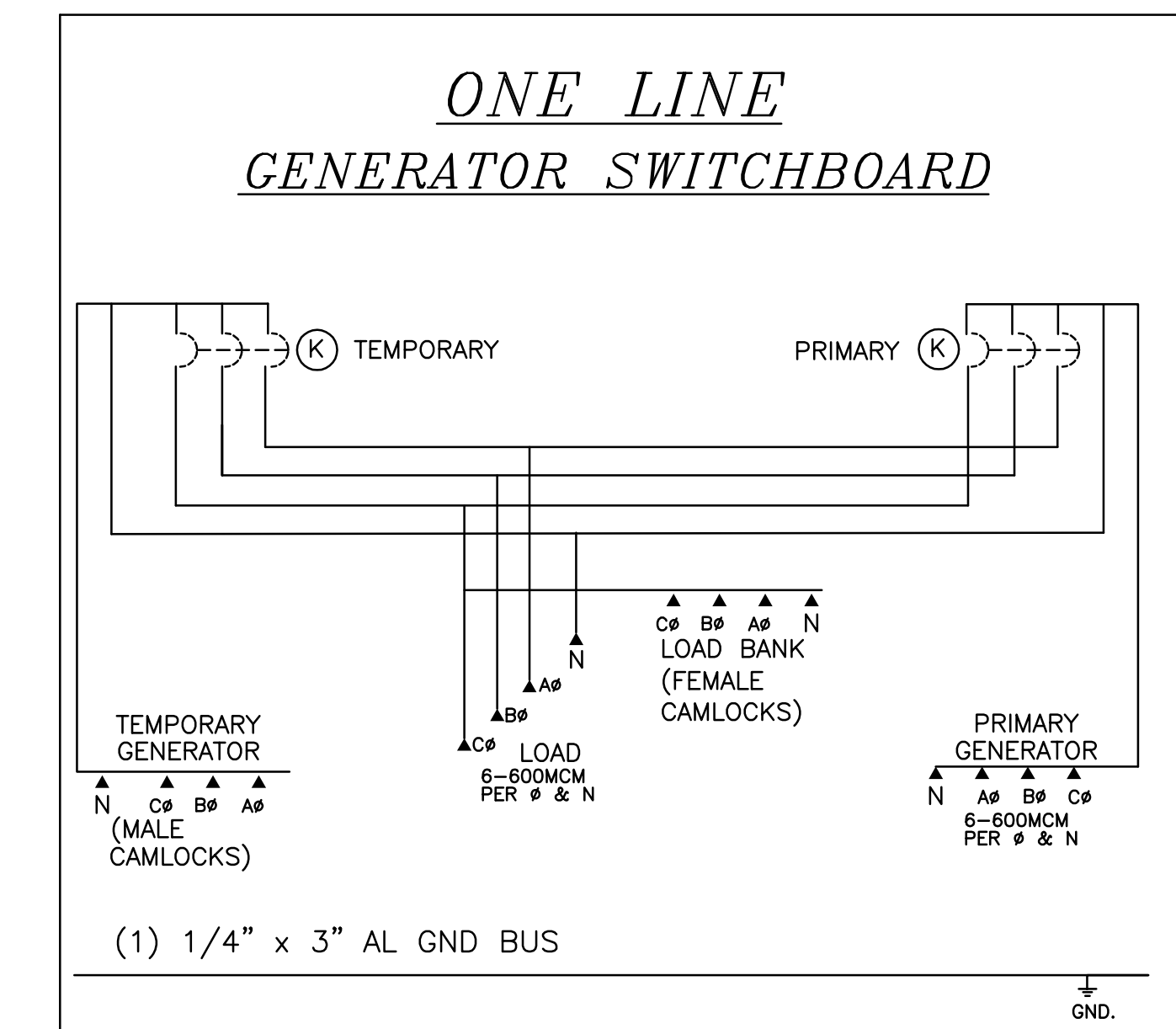
RIGHT SECTION VIEW  
SHOWN WITH PLATES REMOVED  
SHOWING LUG PAD LOCATIONS



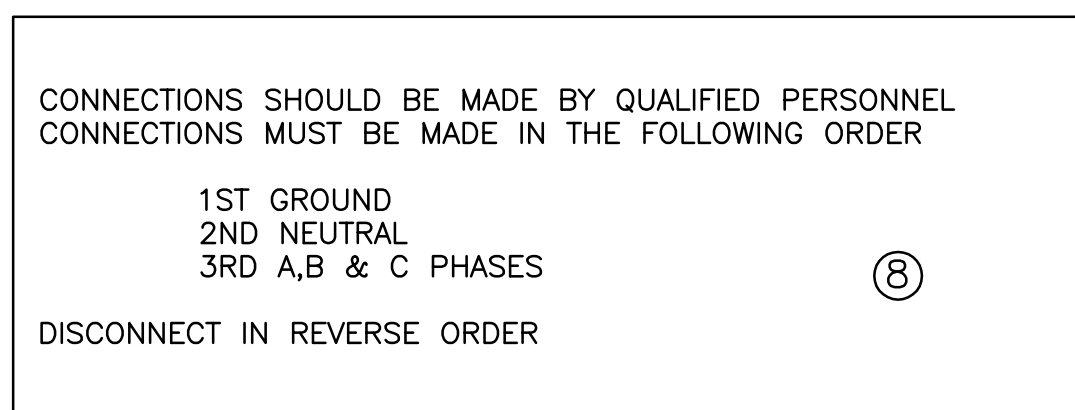
FRONT VIEW  
SHOWN WITH PLATES REMOVED



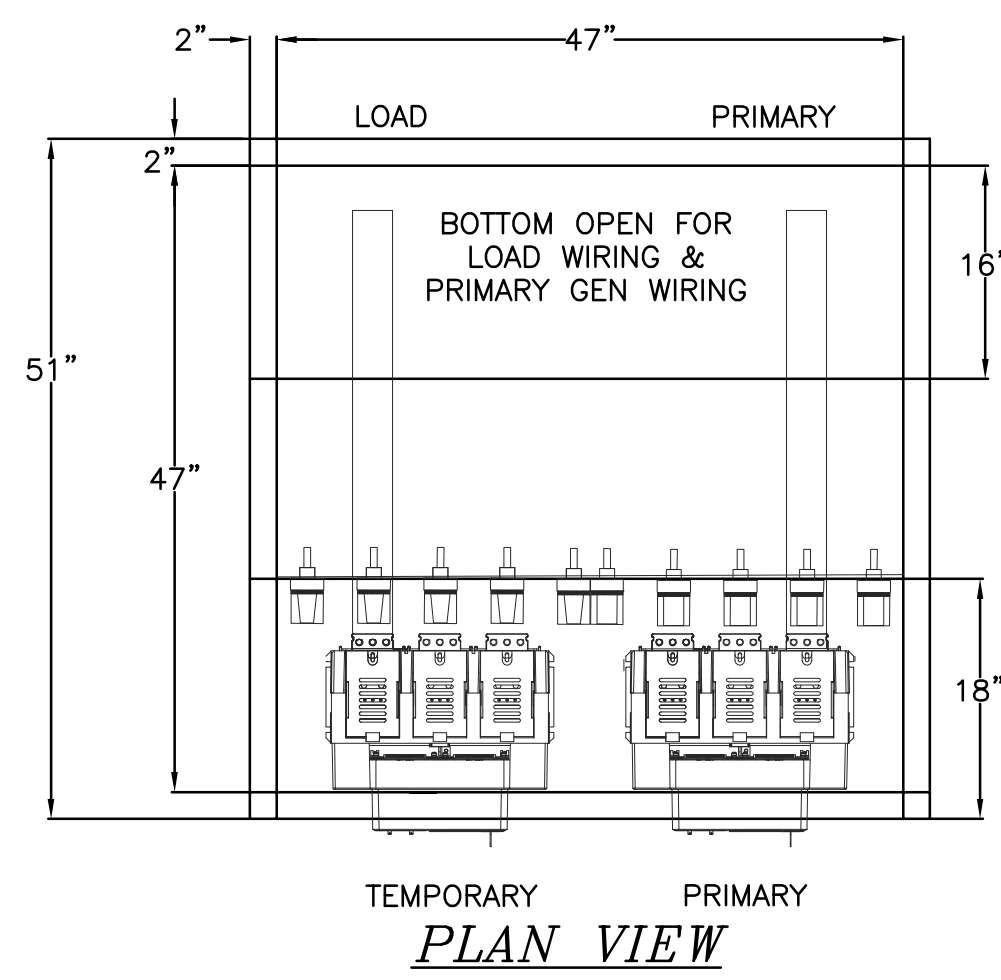
FRONT VIEW  
SHOWN WITH PLATES REMOVED



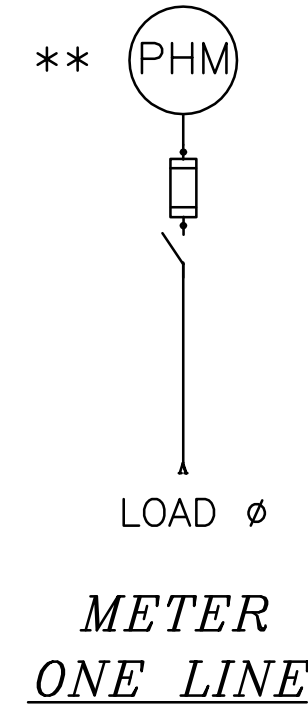
NOTE:  
GENERATOR SWITCHBOARD TO BE AMERICAN MIDWEST POWER  
(AMP) MODEL FCB2525SS.



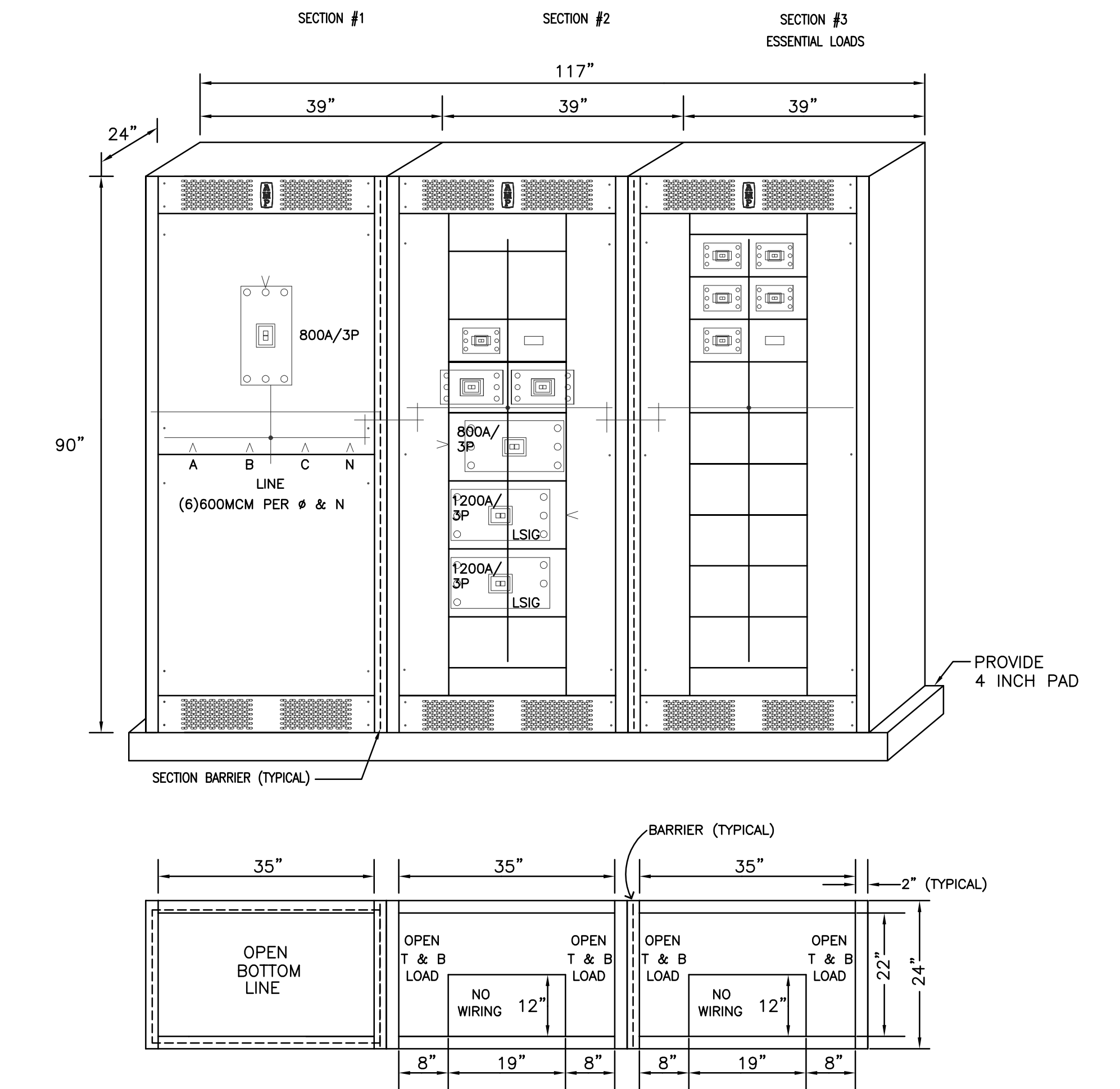
GENERATOR DOCKING STATION #1 DETAILS  
NO SCALE



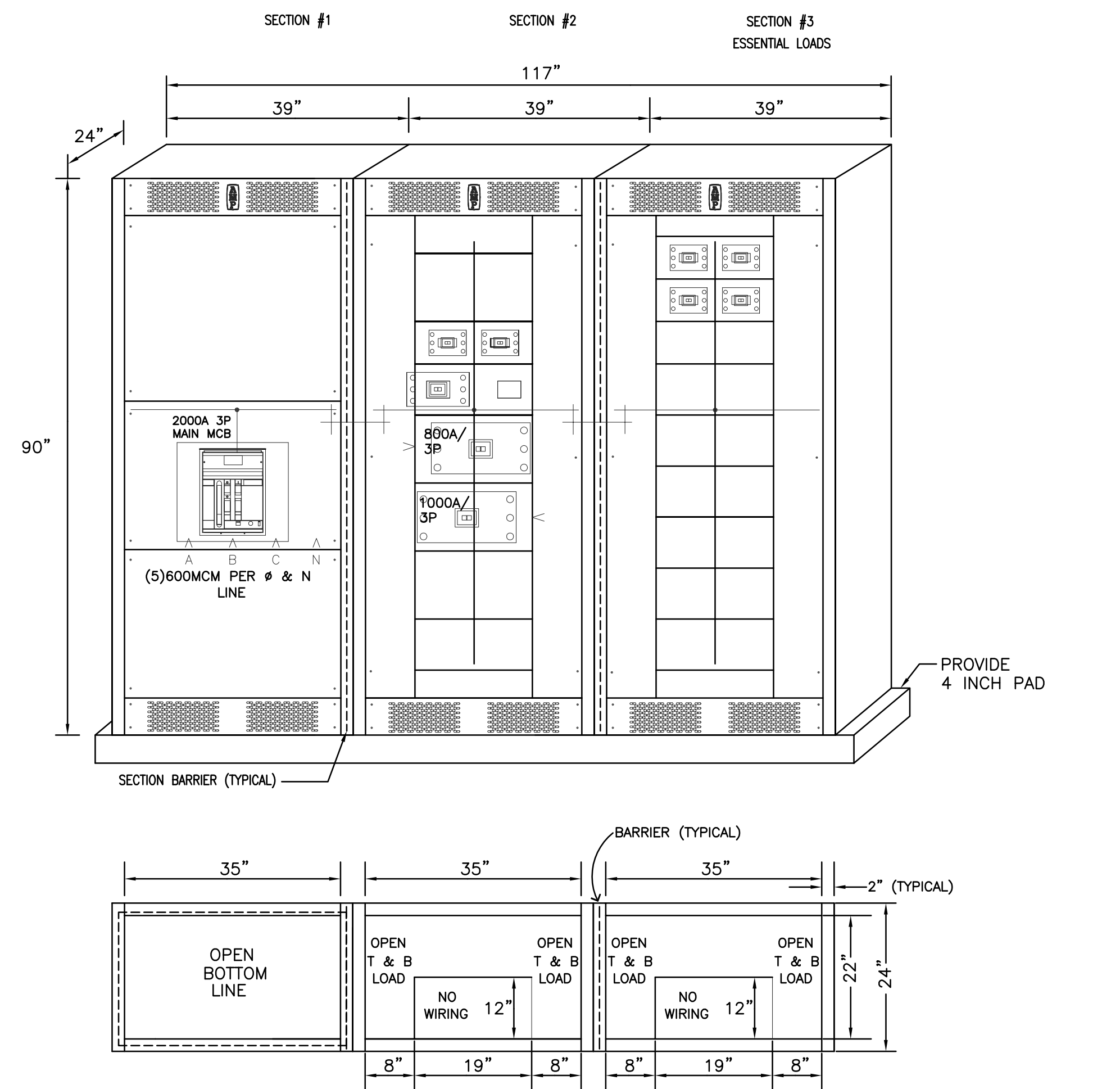
PLAN VIEW



METER  
ONE LINE



102-MSB SWITCHGEAR ELEVATION  
NO SCALE



102-LSB SWITCHGEAR ELEVATION  
NO SCALE

CONSTRUCTION:  
1. DEADFRONT, FREE STANDING  
2. FRONT ACCESSIBLE  
3. NEMA 1  
4. 12 GAUGE STEEL BOLTED FRAMEWORK  
5. PAN FORMED 14 GAUGE SHEET STEEL COVERS  
6. PROVISIONS FOR FUTURE SECTIONS TO ADD ON

IN COMING FEED:  
1. CABLE IN CONDUIT

BUS BAR:  
1. COPPER (SILVER PLATED)  
2. 1,000 AMPS PER SQUARE INCH  
3. 65,000 AIC

BARRIERS:  
1. 1/8 INCH FIBER LAMINATE  
2. 16 GAUGE GALVANIZED STEEL  
3. PROVIDE BETWEEN ALL SWITCHBOARD SECTIONS

PAINTING:  
1. VAPOR DECREASED, BONDERIZED, ACID ETCHED  
2. POWER PAINTED, OUTSIDE  
3. ASA 61 GRAY

CODES AND STANDARDS:  
1. NATIONAL ELECTRICAL CODE (N.E.C.)  
2. UL 891 (SWITCHBOARDS)  
3. SUITABLE FOR SERVICE ENTRANCE (SUSE) SWITCHBOARD

SYSTEM CONFIGURATION:  
1. 2000 AMPS, 208Y/120 VOLTAGE, 3 PHASE, 4 WIRE  
2. BREAKERS TO BE SELECTIVELY COORDINATED AS REQUIRED BY NEC 517

MANUFACTURER:  
1. SWITCHBOARDS TO BE MANUFACTURED BY AMERICAN MIDWEST POWER (AMP) OR EQUAL PER SECTION 26 24 11.

100% CDs - FOR CONSTRUCTION

CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number	
MBN MECHANICAL * ELECTRICAL * CIVIL 502 7th St N, Suite 200 Fargo, ND 58102 Phone: 701.478.6256 Fax: 701.478.6240		JLG architects Alexandria 525 Broadway Street Alexandria, MN 56308 phone 320.759.9030 facsimile 320.759.9062 www.jlgarchitects.com copyright © 2011		ELECTRICAL DETAILS		Building 102 Building 4 Generator Replacement		656-11-211 Building Number 102	
Revisions		Date		Approved Project Director		Location St. Cloud VA Health Care System		Drawing Number	
						Date March 30, 2012		Checked MAB	
						Drawn TLP		E6	
								Dwg. 12 of 12	

